



*this is*  
**HALLAMORE**  
*who we are...*  
*what we make...*  
*what we've done...*



## HALLAMORE ELECTRONICS DIVISION OF THE SIEGLER CORPORATION

A Delaware Corporation . . . Executive Offices located at  
610 South Harvard Boulevard, Los Angeles 5, California . . .

### The Siegler Corporation Divisions and Subsidiaries:

Bogen-Presto Division — Paramus, New Jersey  
Comet Division — Los Angeles, California  
Community Antenna Company, Inc. — Reno, Nevada  
Hallamore Electronics Division — Anaheim, California  
Holly-General Division — Pasadena, California; Burbank, California  
Hufford Division — El Segundo, California  
Magnetic Amplifiers Division — New York, New York  
Olympic Radio & Television Division — Long Island City, New York  
Siegler Heater Division — Centralia, Illinois  
Siegler Corporation of Canada, Limited  
Vac-U-Lift Division — Salem, Illinois  
Jack & Heintz Division — 7600 Broadway, Cleveland, Ohio

|                           |              |
|---------------------------|--------------|
| Net Sales 1960 . . . . .  | \$84,095,002 |
| Working Capital . . . . . | 21,464,965   |
| Net Worth . . . . .       | 25,521,982   |

Current combined sales since the merger with Jack and Heintz, effective February 2, 1961 have been running at \$100,000,000 per year. Actual sales, first six months of fiscal 1961 were \$49,053,963.

Shares of The Siegler Corporation are listed on the New York Stock Exchange and the Pacific Coast Stock Exchange.

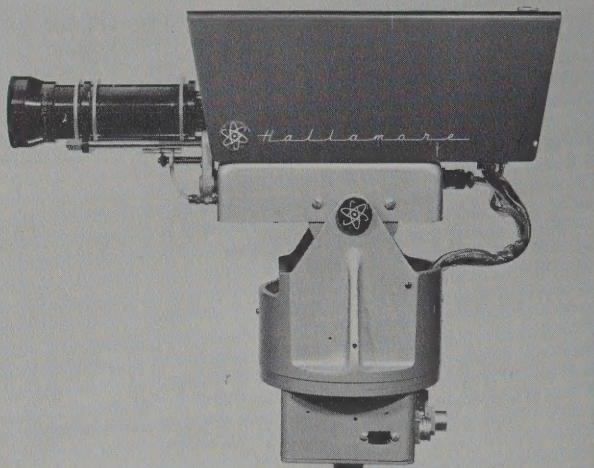
### HALLAMORE ELECTRONICS DIVISION

714 NORTH BROOKHURST STREET  
ANAHEIM, CALIFORNIA  
PROSPECT 4-1010 • TWX AH-5279

# HALLAMORE PRODUCTS

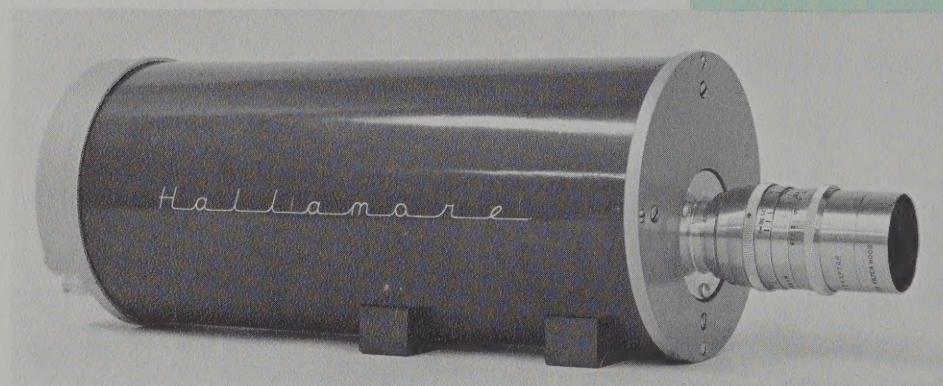
## TELEVISION . . .

... We made a *true* industrial  
Vidicon Camera



... We made the *first* rugged  
transistorized Vidicon Camera

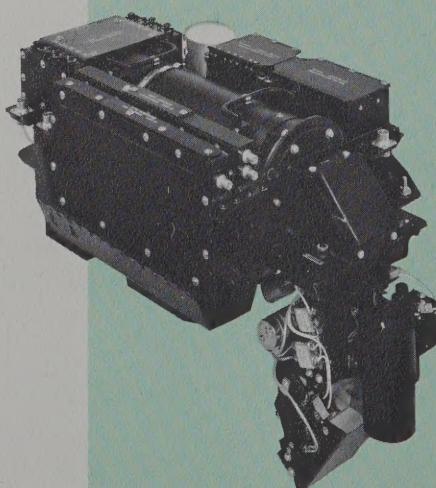
*Model CC400A*



*Model CC420*

... We made the *first* transistorized  
airborne Image Orthicon  
reconnaissance camera

- Deep Sea Search
- Airborne Reconnaissance
- Night Surveillance
- Missile Tracking
- Photon Threshold Imagery
- Aircraft Navigation



*... We made the slow scan space television system for the Centaur Program*

*... A task normally requiring six months, was completed in 91 days.*

*... 500-line resolution at 75KC transmission bandwidth*

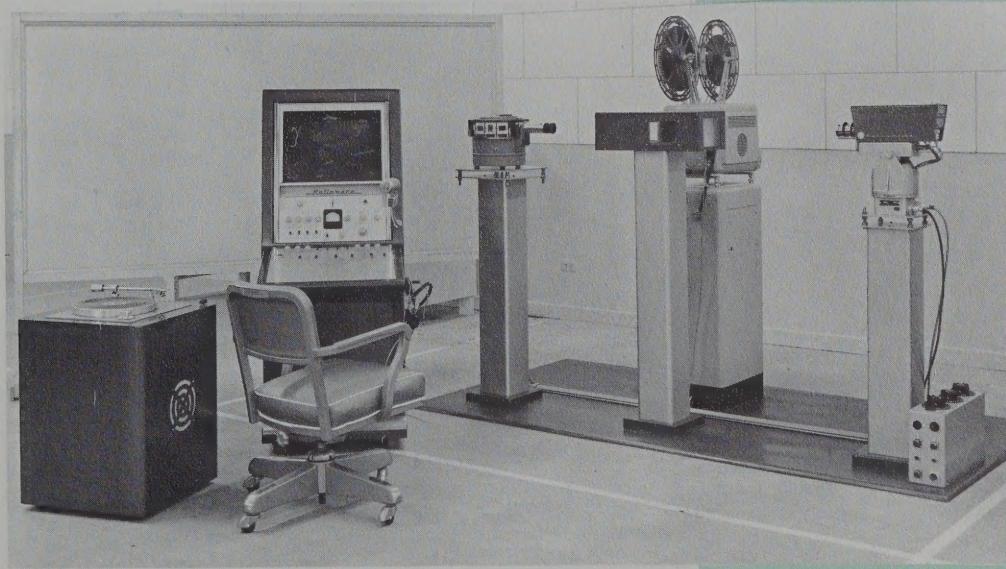


*... We make closed loop military color video systems*

*... Stereo viewing optional*



*... We made the first one-man studio package*

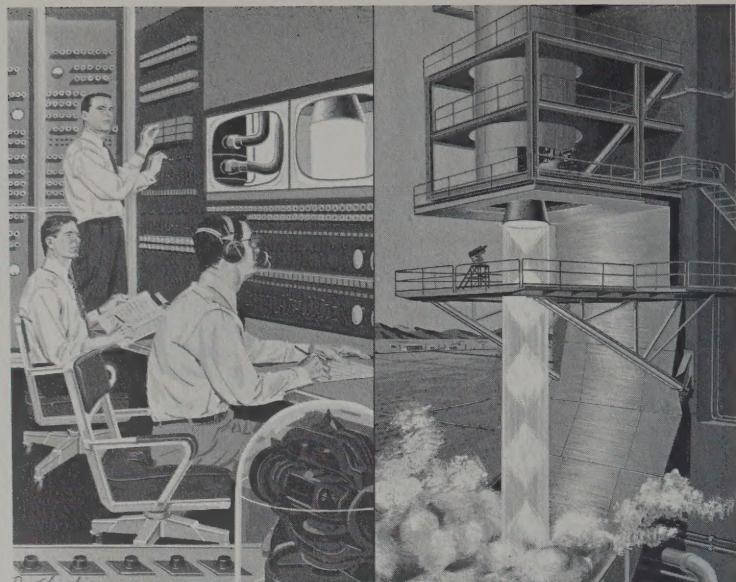


... Missile Test & Launch

Saturn  
Titan  
Vanguard  
Jupiter  
Polaris  
Pershing

Minuteman  
Thor  
Atlas  
Redstone  
Juno

*Plus the X-15 and others . . .*



... Explosion Proof Camera

*... Designed for use in UDMH  
and other toxic or explosive  
atmosphere . . .*



... Underwater Television

*... Over two years continuous  
underwater operation.*



### ... Range Safety

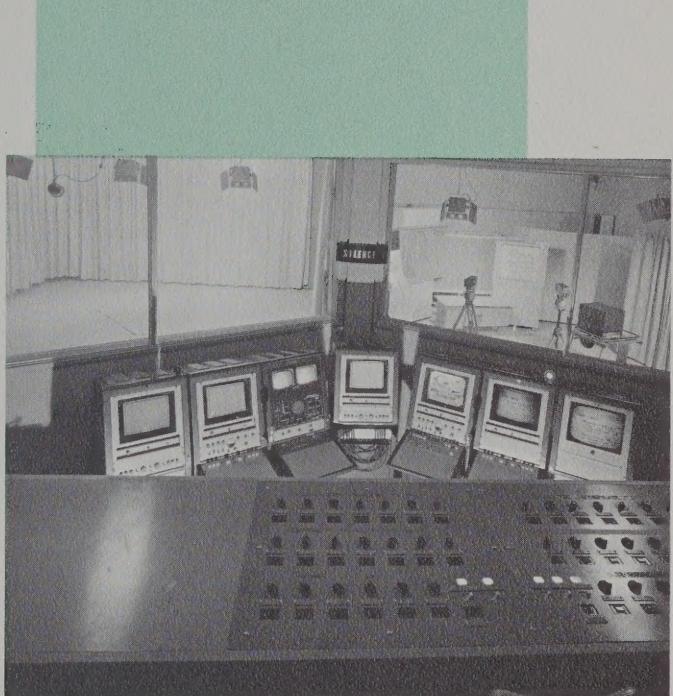
- *Skyscreen*
- *Pad Surveillance*
- *Bore Sighting*



### ... Educational Television

*... First competitive procurement of educational closed-circuit television, comprising 22 schools in one system.*

*(Anaheim School District, Anaheim, California)*



### ... Well Camera

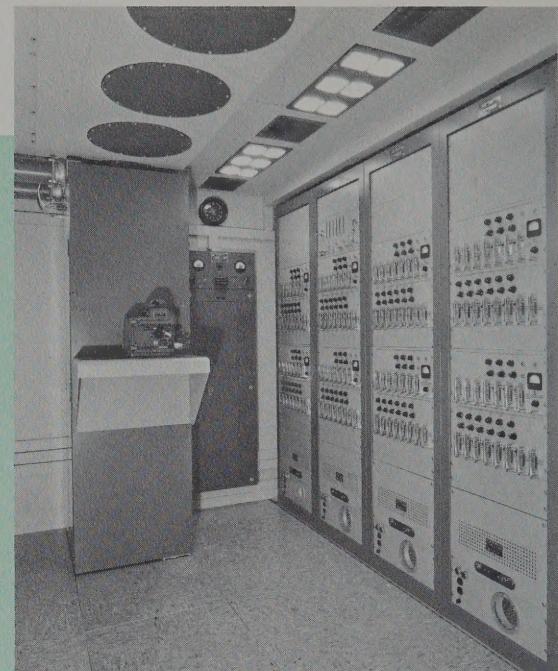
*... Used in the inspection of well casings to depths of 1500 ft.*



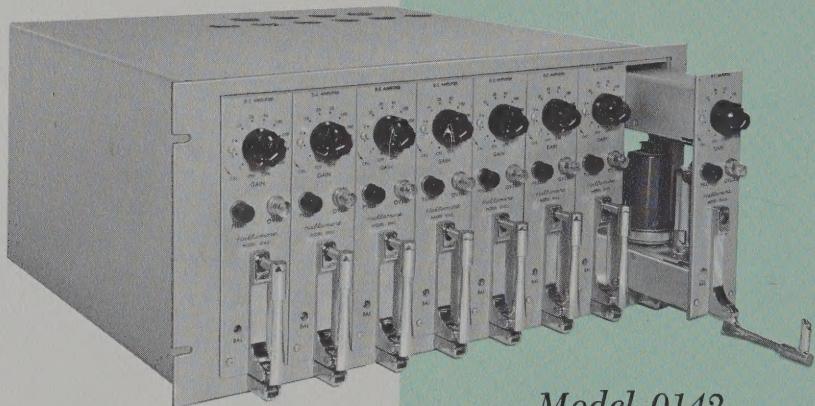
*... Plus a complete line of monitors, housings, switching equipment, remote controls, sync generators, and other accessories ...*

## INSTRUMENTATION COMPONENTS

... We made the *first* electrically and mechanically integrated data systems utilizing modular components ...



### ... D.C. Amplifier



Model 0142

... We made the *first* Phase-Lock Subcarrier Discriminator

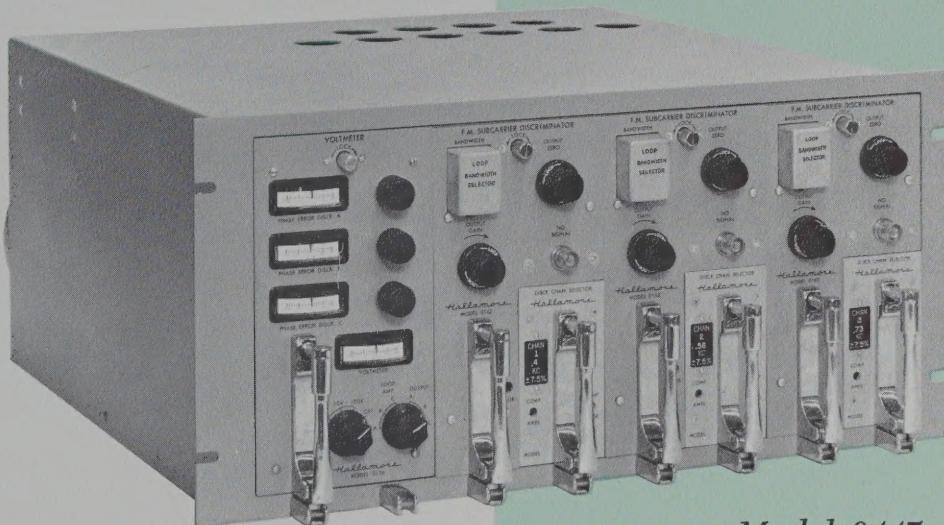
- *Phase coherent detection*
- *Selectable bandwidth*



Model 0162

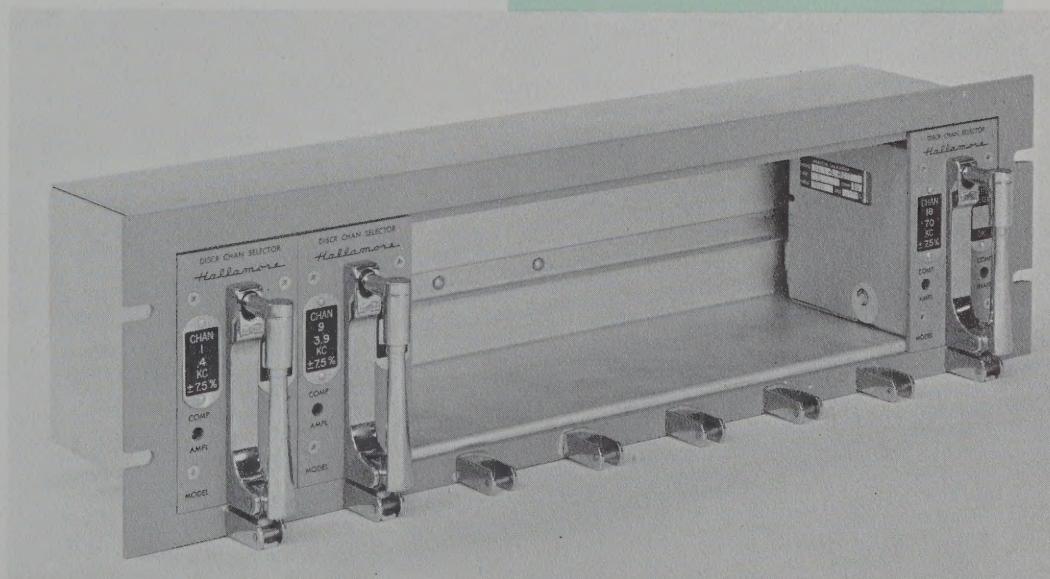
## ... Subcarrier Discriminator

- *Bandwidth Programming*
- *Lost Signal Search Voltage Injection*



Model 0447

## ... Channel Selector Storage Cabinet



Model 0318

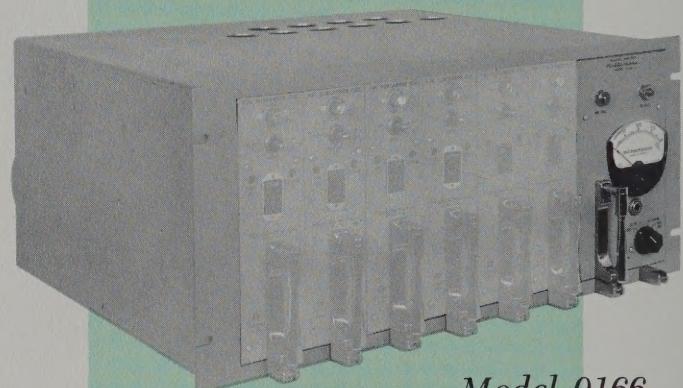
... Voltage Controlled Subcarrier  
Oscillator



Model 0161

... Summing Amplifier

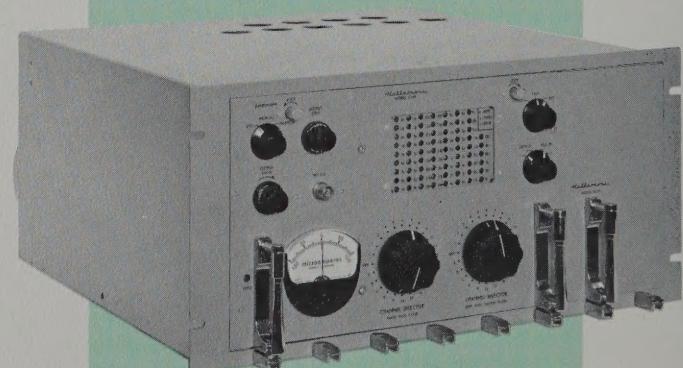
*... 18 input channels ...  
... Self-contained crystal-controlled  
reference oscillator ...*



Model 0166

... Bandswitching Discriminator

*... Only Phase Lock Bandswitching  
Discriminator currently available*



Model 0169

... Solid State Voltage Controlled  
Oscillator

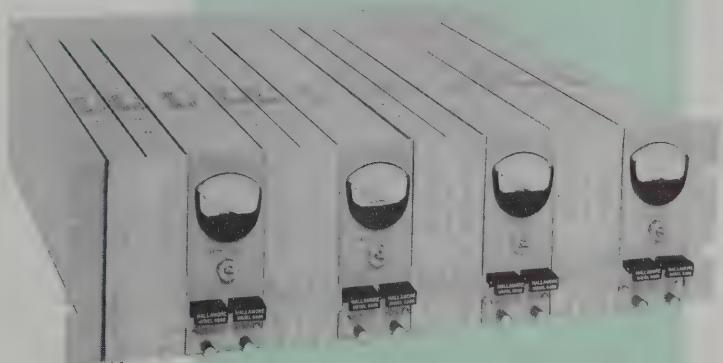
... Up to 16 VCO's — or 14 VCO's  
and 1 Summing Amplifier  
per module



Model 0395

... Solid State Summing Amplifier

... 200kc frequency response  
... 18 input channels



Model 0396

... Millivolt Controlled Oscillator

... Solid State

... Welded construction

... Only 4½ oz.

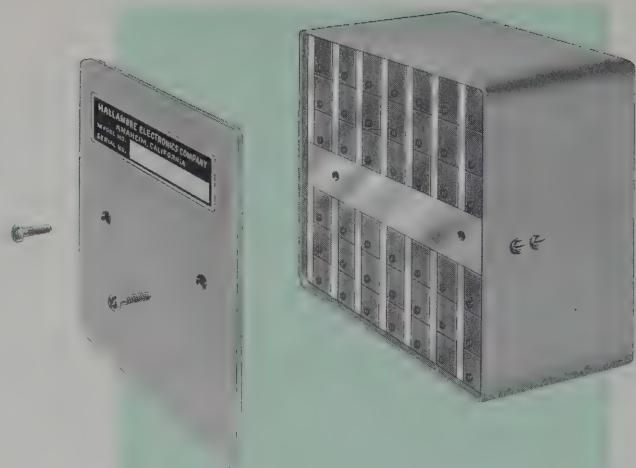


Model 0554

### ... Active Filters

... Insert between transducers and commutator to reduce aliasing errors in PCM, PAM, PDM systems

... 14 filters and power supply in 8.25 cu. in.



### ... Potentiometric Voltmeter

... 0-10 microvolts to 10 volts with .025% accuracy



Model 0181

### ... MANUAL TAPE SIMULATOR

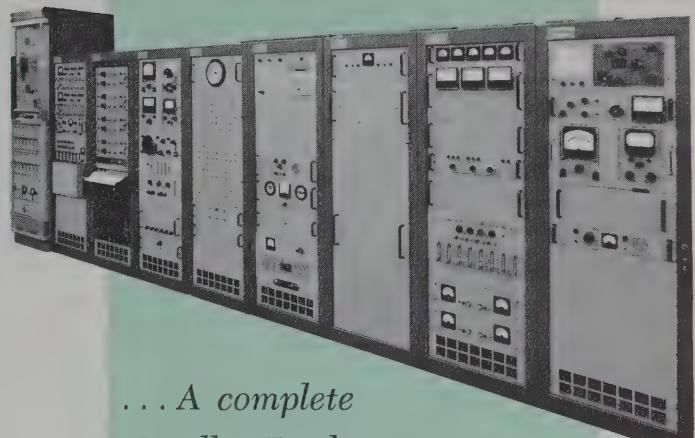
... Originates or duplicates any digital program on one standard tape frame, to 80 bits



Tapex Model 0359

## PHASE-LOCK EQUIPMENT . . .

. . . First commercially produced  
Phase-Lock Receivers



. . . A complete  
Satellite Tracking Station

. . . Second generation Phase-Lock  
Receivers

. . . System sensitivity with  
0484 Converter and 0285  
detector is  $-155 \text{ dbm}$



Model 0285

. . . Converters for all satellite channels

. . . Others available on request



Model 0484

... Phase Stable Oscillators

...  $1^\circ$  per sec at 50 MC



... Local Oscillator Driver

... Front panel switching selects any of 96 channels in the 216-260 MC telemetry band.



Model 0485

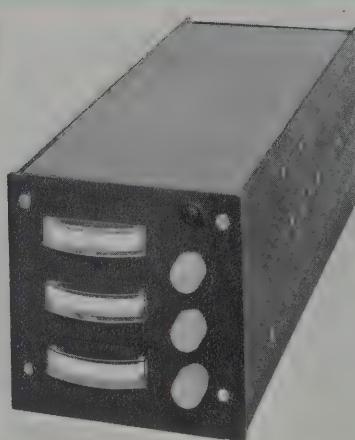
... Transistorized Phase-Lock Receiver

... Airborne or ground

... Air search and rescue

... Satellite tracking

... Survivable communication links



Model 0460

... Beacons

... Low Temperature Operation Phase  
Stable Beacons

- *Nose Cone Recovery*
- *Telemetry*
- *Radiosonde*



*HALBE Beacon*

- *Personnel Recovery*
- *Crash Location*
- *Capsule Recovery*

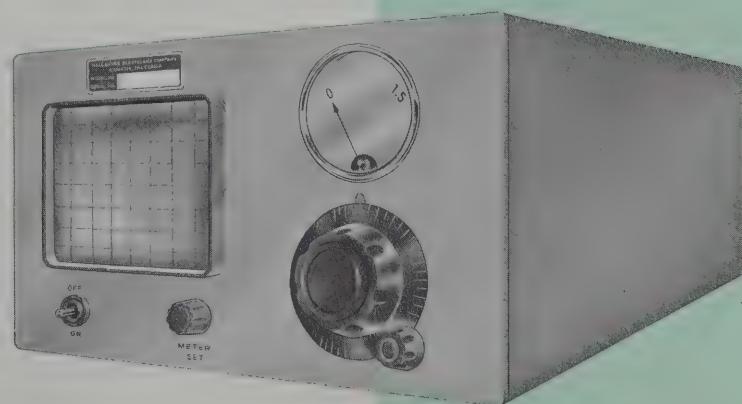


*DARB-4*

... Low-Level Signal Generator

... Incorporates Phase-Stable  
Oscillator

... Calibrated output below  
-155 dbm



*Model 0490*

## TELEPHONE AND VOICE FREQUENCY EQUIPMENT

### ... Transmission Measuring Set

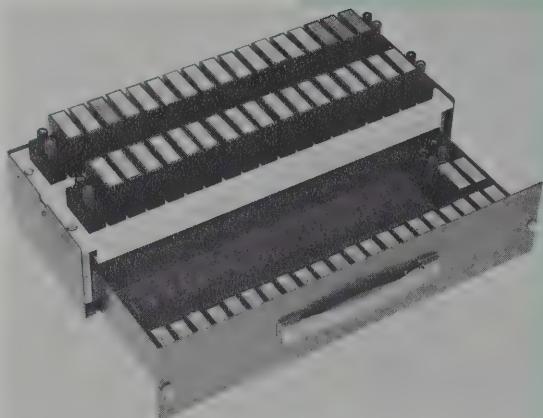
*... Displays response characteristics  
of voice circuits.*



*Model TMS-0100*

### ... Artificial Line

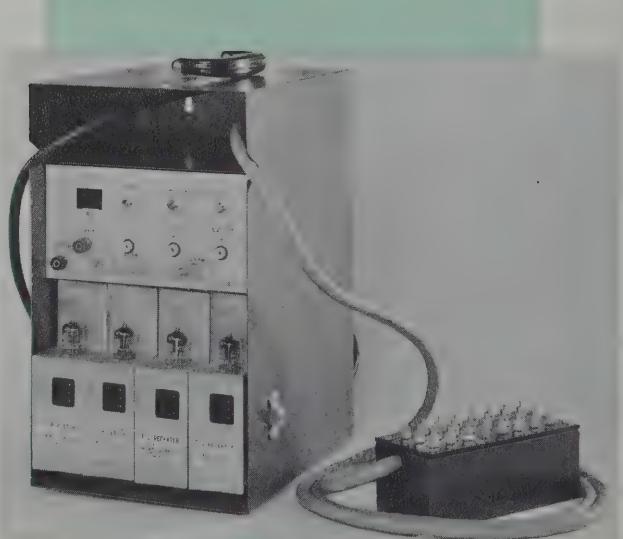
*... Simulates outside plant circuits*



*Model TLA-0100*

### ... Portable E-Repeater Package

*... Contains four voice-frequency  
repeaters and power supply*



*Model RPP-0230*

## ... Hybrid Test Set

... Versatile instrument used in testing telephone cable circuits



## PRECISION POWER SYSTEMS ...

### ... Variable-Speed, Constant Frequency Alternator

- ... Controls frequency by control of AC revolving field.
- ... Holds .001% frequency over  $\pm 10\%$  variation in shaft speed
- ... Programmable frequency.

Precision Frequency  
37.5KVA MG set.



### ... Synchro Flux Motors

### ... Adjustable Speed Constant Torque

### ... Adjustable Speed Constant Horsepower

... Adjustable Speed Synchronous Motor  
(Synchronized to reference, rather than to line)

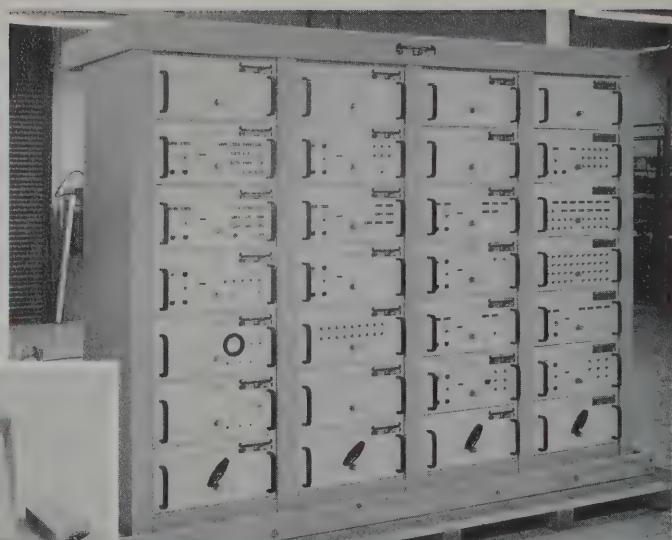
... Antenna drive motors

## GROUND SUPPORT EQUIPMENT...

... ATLAS

... Silo Launch Control

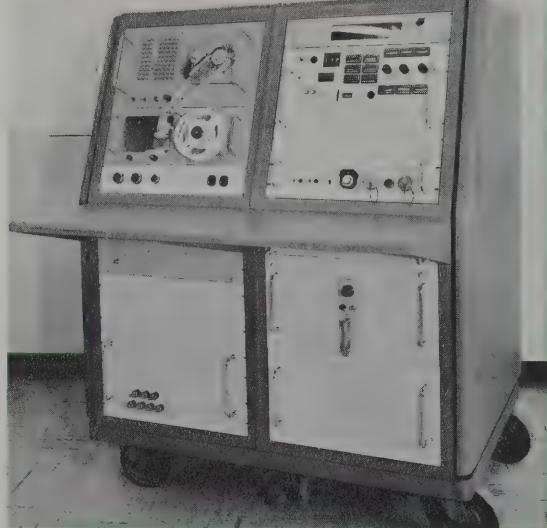
*... First system delivered 3 weeks ahead of schedule*



... ATLAS

... Servo Amplifier Test Set

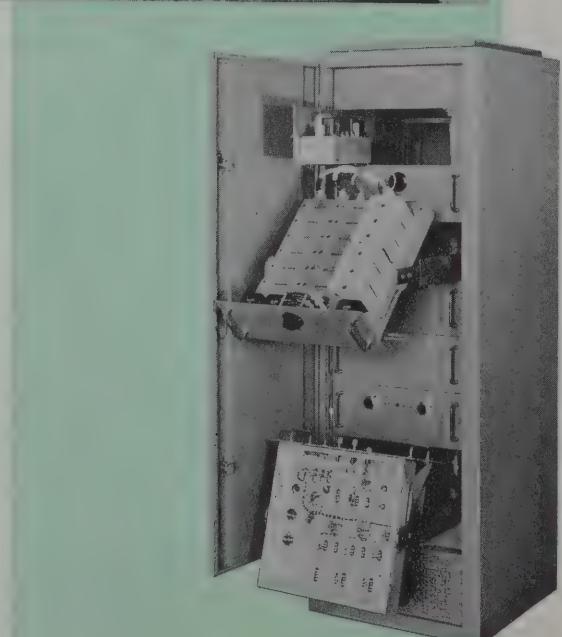
*... Automatic Operation  
... Digital Tape Programming  
... Self-Verification  
... Go, No-Go Indication*



... ATLAS

... Program Monitor

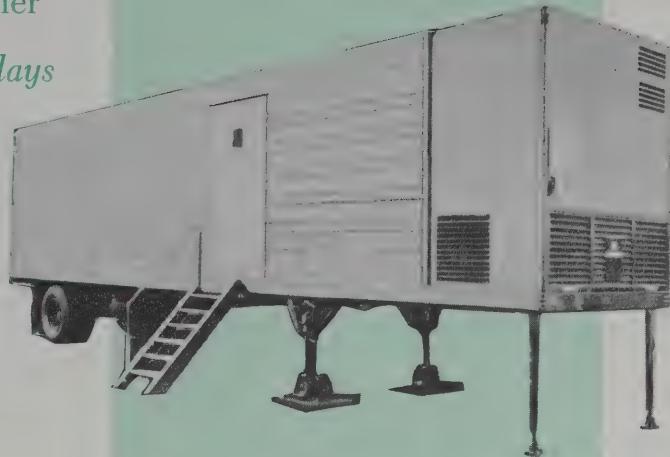
*... Pre-launch check of autopilot programming.*



... ATLAS

... Pre-Launch Instrumentation Trailer

*... First system delivered in 28 days*



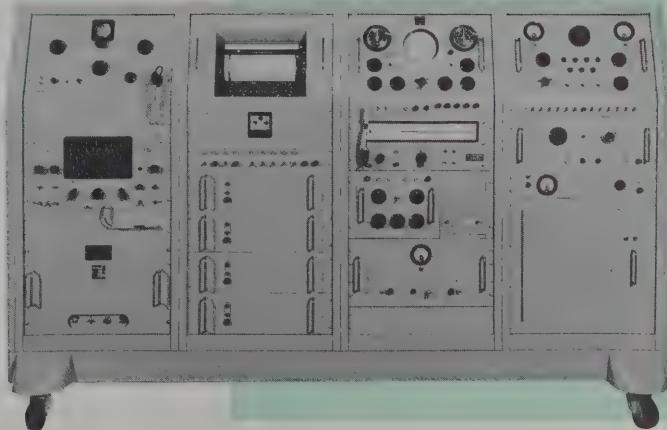
... MIDAS

*... Checkout control and indicator console*



... SNARK

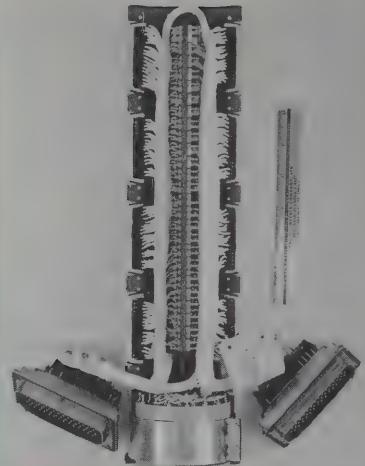
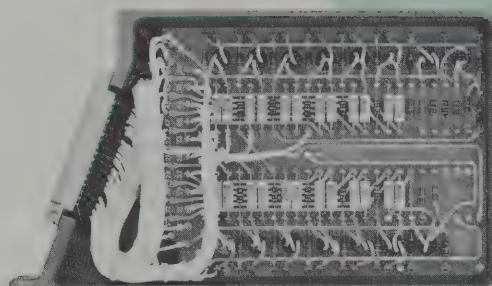
... Signal Detector Test Fixture



... SERGEANT

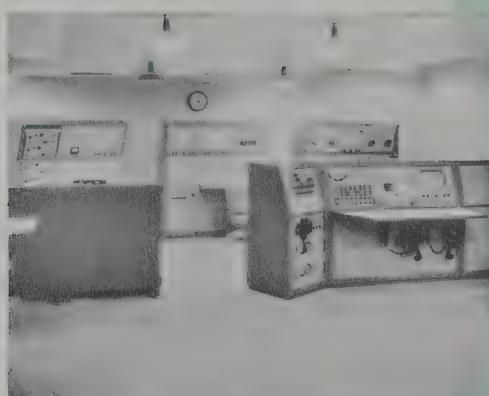
... Firing Test Set Assemblies

... Operational Missile Test Set  
Assemblies



... POLARIS

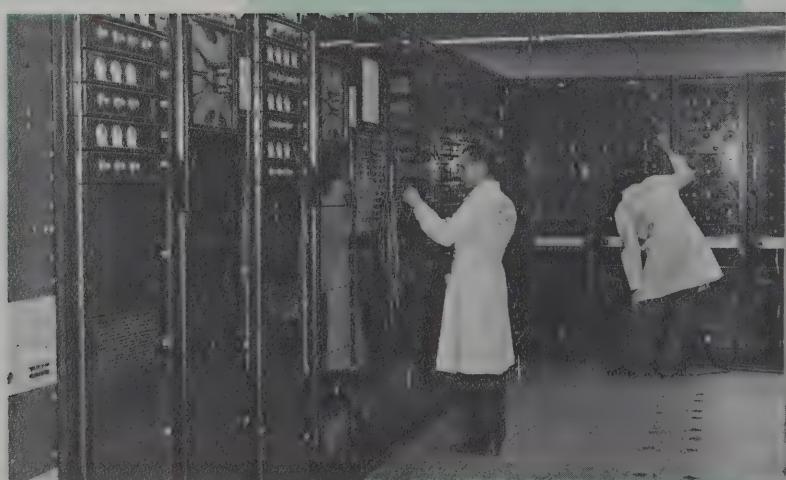
... Launch Control



... TITAN

... Test Stand Instrumentation

... Over 1,000 racks



... DISCOVERER

... Telemetry Trailers



... DISCOVERER

... Range Instrumentation Ship



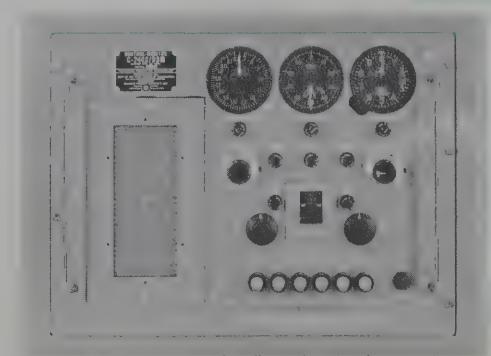
... REGULUS

... Airspeed – Height Simulator

*Simulation of altitude from 0-60,000 ft.*

*Simulation of mach number 0.7 to 2.2*

*Simulation of airspeed 50 to 850 knots*



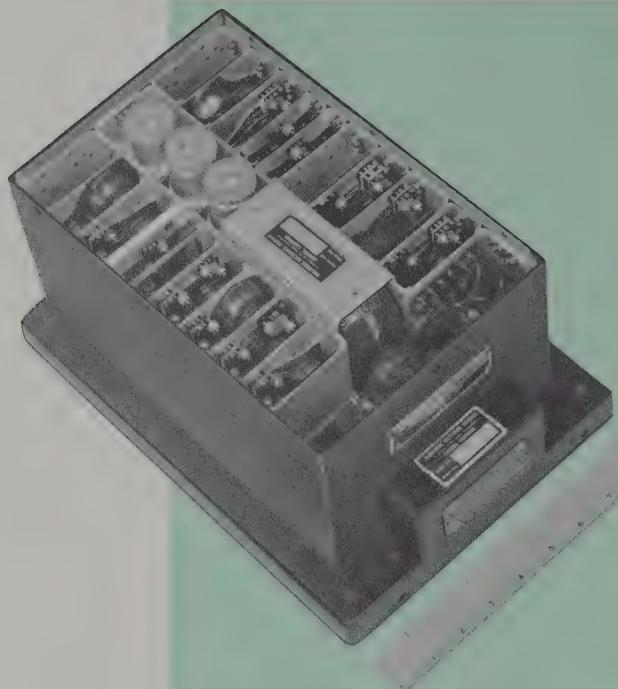
*Model 2001*



*Model 2000*

... MATADOR

... Autopilot



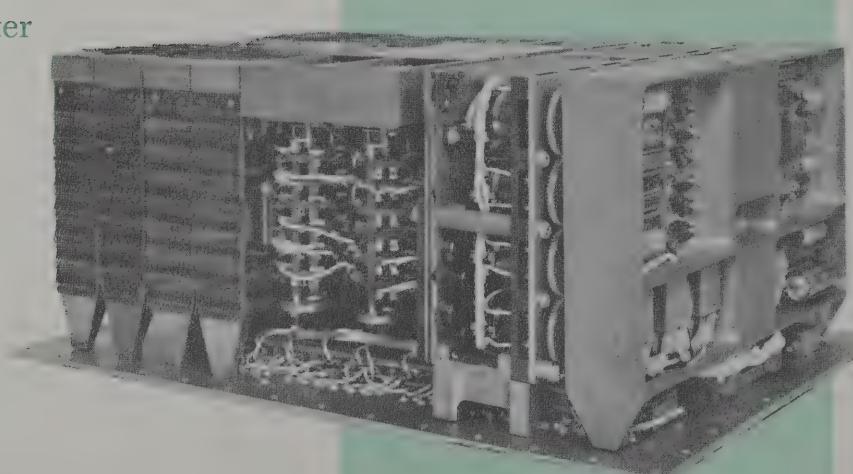
... POLARIS

... Autopilot  
*(second source)*

CLASSIFIED

... VEGA

... Guidance Computer



... PIONEER

... Satellite Tracking Station

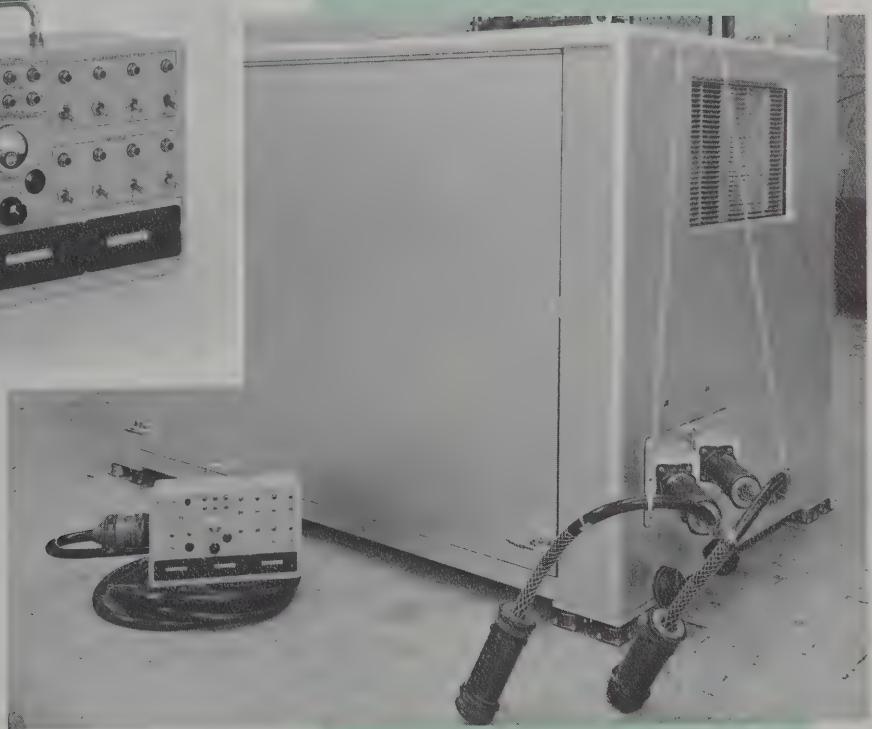
*... Station completed in 54 days.*



*Tracking Station Trailer Interior*

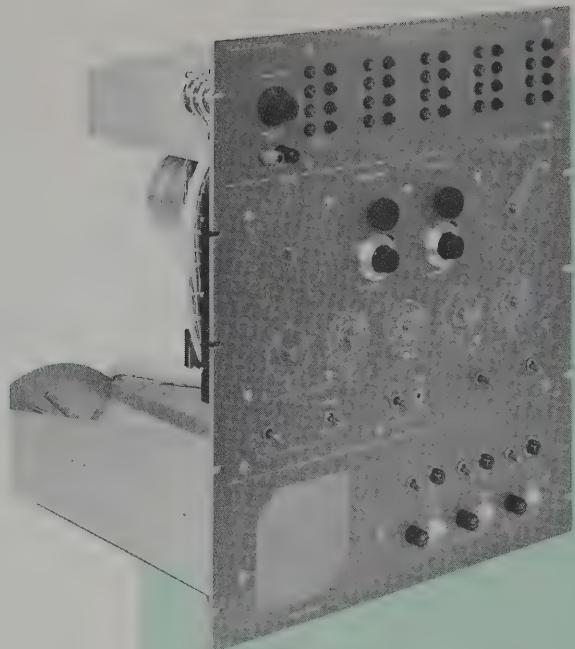
... MINUTEMAN

... Mobile engine test instrumentation



ASROC . . .

. . . Synchro Servo Test Set

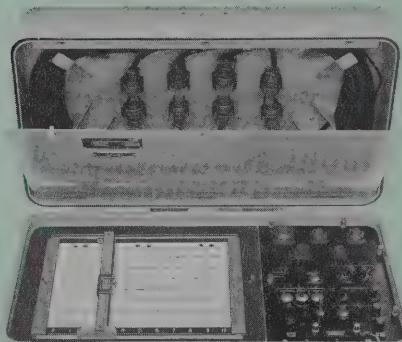


## FLIGHT CONTROL SYSTEM ANALYZER

(Federal stock number:  
4920-601-7191)

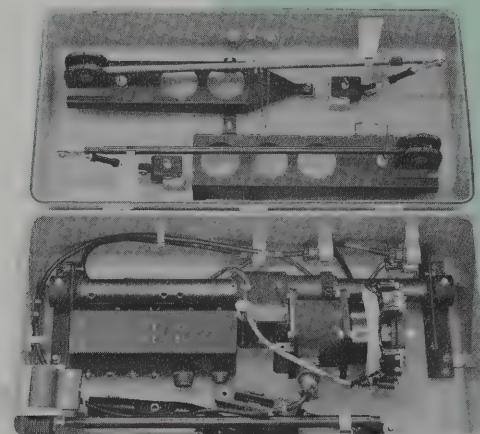
*Standard test for . . . F102  
                  . . . TF102  
                  . . . F106*

*Plots stick force  
vs.  
Control Surface Angle*



ANALYZER  
FLIGHT CONTROL SYSTEM  
SE 1097-1

*Recorder box*



*Test Fixture*

## SPACE SYSTEMS TECHNOLOGY GROUP

The Siegler Corporation Space Systems Technology Group has been established primarily to engage in the offering of specialized technical services in missile and space program test operations and test range planning, and to provide an over-all capability in range systems work from conceptual studies through field operations. These specialized services are accomplished through the combined capabilities existing in the Space Systems Technology Group and the Hallamore, Hufford, Magnetic Amplifier, Olympic Radio and Television, and Bogen-Presto Divisions of The Siegler Corporation.

For more than five years, personnel of the Space Systems Technology Group worked together as an integrated team in the U. S. Air Force ballistic missile and space programs. Group responsibilities during this association extended from a single purpose technical study of the problem of continuous telemetry communications with the Atlas nose cone during re-entry conditions, to the technical planning, systems engineering, and technical direction of the establishment of a complete instrumentation and range safety system at Vandenberg Air Force Base.

As an integral activity of The Siegler Corporation, the Group now offers a broad scope of test support capabilities encompassing any type of test support project, from solution of a single problem to the planning, design, building and operation of entire range systems or specialized test facilities.

FOR FURTHER INFORMATION CONTACT . . .

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**ANAHEIM, CALIF.**

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Anaheim, California  
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**THE BAY AREA**

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REgent 9-9880

**SAN DIEGO AREA**

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San Diego 11, California  
BRowning 7-8900 - Ext. 1937

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(Space Systems Technology Group)  
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ORchard 7-7141

**DENVER, COLORADO**

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MEtropolitan 8-2920  
TWX: WA 994

**HUNTSVILLE, ALABAMA**

Mr. J. ("Pat") Smith  
J. P. Smith Associates  
3313 Memorial Parkway  
South Huntsville, Alabama  
JEfferson 6-4996  
TWX: HT ALA 8556

FIRST  
CLASS  
MAIL

Permit No. 357  
Anaheim, Calif.

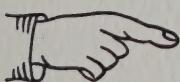
BUSINESS REPLY CARD  
No Postage Stamp Necessary If Mailed In U.S.

POSTAGE WILL BE PAID BY —

**HALLAMORE ELECTRONICS**  
DIVISION OF THE SIEGLER CORPORATION  
714 NORTH BROOKHURST STREET  
ANAHEIM, CALIF.

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NOW  
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ARE WE ON YOUR BID LIST?

Please send me information on:

- CLOSED CIRCUIT TELEVISION SYSTEMS
- INSTRUMENTATION PRODUCTS (AMPLIFIERS, DISCRIMINATORS, VCO'S, ETC.)
- PHASE-LOCK EQUIPMENT
- PRECISION POWER SYSTEMS
- GROUND SUPPORT EQUIPMENT
- AIRBORNE (FLIGHT CONTROL AND T.V. RECONNAISSANCE)
- TELEPHONE EQUIPMENT
- HAVE REPRESENTATIVE CALL.

MY PROBLEM IS: \_\_\_\_\_

Name \_\_\_\_\_ Title \_\_\_\_\_

Company \_\_\_\_\_ Dept. \_\_\_\_\_

Address \_\_\_\_\_ Phone \_\_\_\_\_

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Company \_\_\_\_\_ Dept. \_\_\_\_\_

Address \_\_\_\_\_ Phone \_\_\_\_\_



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